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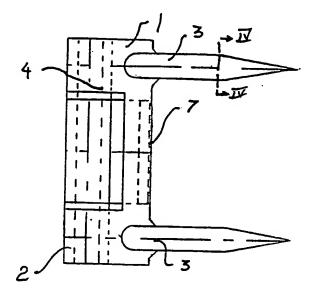
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(57) Abstract

A hinge leave (1) for a door hinge is provided with at least two prongs (3), each having a curved form and a sharp point. The prongs (3) are driven into a door in prebored holes, whereby the curved form of the prongs (3) will provide for a good guiding during the driving in and a good holding in the door. An edge (7) on the hinge leave (1) between a pair of prongs (3) will abut the door material when the driving in is properly done.

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1

IMPROVEMENT IN HINGE LEAVES.

The present invention concerns an improvement in hinge leaves for the hinge having two leaves.

Hinges, for instance for doors, have had many different and more or less successful forms. One type of hinges, so called driving in hinges, has a peg or prong adapted to be driven into a prebored hole in one of the two parts which are to be hinged together by means of the hinge. The peg or prong can The square profile have round or square cross section. type has mostly been used for forged hinges for relatively large constructions such as gates and the like. profile for the prong is used in hinges adapted for smaller and more accurate structures. A drawback of the latter is, however, that the round pegs or prongs do have screw threads or circumferential rills which shall provide for a good holding in the wood work in the part which is to be hinged. Provided the peg or prong is not driven accurately axially into the bored hole the threads or rills will, during the driving in cut its own hole, which in that case will be misaligned relative the already bored and assumingly correct placed hole.

Known hinges of this type are difficult to drive into correct depth and they are also expensive in manufacture.

The object of the present invention is to provide for an improvement in hinge leaves, thereby obtaining the same advantages as known from the known driving in hinges and without any of the associated drawbacks.

This object is according to the invention reached in that the hinge leave is stamped out together with the prongs from one and the same working piece. The prongs is stamped to a curved form, thereby providing for a good contact between the prongs and the bored hole during the driving in of the prongs, as explained in the following.

The curved form can represent a small part of a full circle and also sharp points of the prongs are adapted to guide the prongs during the driving in. An edge on the hinge leave between pair of prongs will abute for instance a door edge when the leave is driven in and will stop further driving in of the hinge leave. Thereby the hinge leave will be placed in a correct position, that is that a correct driving in depth is achieved.

Characterizing features of the invention are found in the claims and the invention will be explained further in the following with specific reference to the drawings wherein

- Figure 1 discloses a hinge leave according to the invention, viewed from the side,
- Figure 2 discloses a hinge having a hinge leave according to the invention and a hinge leave of prior known form.
- Figure 3 discloses the hinge viewed from an edge, and
- Figure 4 discloses a view through a prong along the line IV-IV in Figure 1.

The hinge leave 1 in Figure 1 has in the diclosed form a known hinge barrel 2. The leave is stamped out of a working piece having a thickness of 2.8 mm. Prongs 3 adapted to be driven into prebored holes in a door are stamped out simultaneously with the stamping out of the part of the hinge leave 1 which shall form the barrel 2. The prongs 3 are as disclosed in Figure 1 parallel to each other and are preferably extending perpendicularly on the swinging axis 4 of the hinge. The prongs 3 are stamped to a curved form as disclosed in Figure 4. A part of the curve form of the prongs 3 is also disclosed in Figure 3. This goes also for Figure 2 which in addition to the curved form also shows the sharp pointing of a prong 3 at 5. This pointing is of special importance during the driving in, because the prong 3 having a such form will be driven into contact along the

walls of the bored hole and obtain a close abutment here wintout being harmed or destroyed in any way.

The Figures 2 and 3 discloses the second hinge leave 6 which in this example is of the snap-in type.

The hinge leave edge 7 between the prongs 3 is such placed that when it during the driving in of the hinge will abute the door material the prong 3 will have been driven in exactly as far as wanted, that is the hinge will have the correct position on the door. The disclosed hinge leave has two prongs, but it may of course within the frame work of the invention be possible to use for instance three prongs or eventually more, dependent on the wanted support capacity for the hinge.

WO 90/06413 PCT/NO89/00124

4

Patent Claims.

1.

Improvement in a hinge leave, especially in a door hinge, characterized in that the leave (1) for securing on a door has at least two outwardly extending prongs (3) which are stamped with a curve form out of the same working piece as the hinge leave.

2.

Improvement as in claim 1, c h a r a c t e r i z e d i n that the cross section of a prong is only a minor part of a circle.

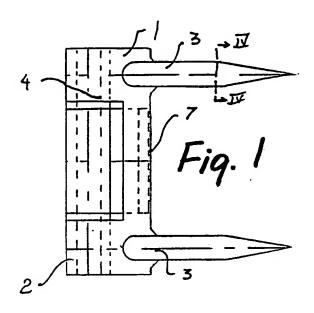
3.

Improvement as in claim 1 and 2, c h a r a c t e r i z e d i n that sharp edges towards the points of the prongs (3) are adapted to guide the prongs (3) during the driving in.

4.

Improvement as in any of the preceding claims, c h a r a c t e r i z e d in that an edge (7) of the hinge leave (1) between pair of prongs (3), forms an abutment between hinge leave (1) and a door, thereby defining the correct driving in depth.

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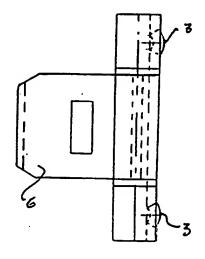


Fig. 3

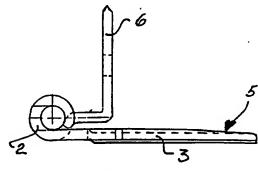


Fig. 2



₩ Fig. 4

INTERNATIONAL SEARCH REPORT

	International Application No. PCT/NO 89/00124						
1. CLASSIFICATION OF SUBJECT MATTER (if several classification)	fication symbols apply, indicate ail) ⁶						
According to International Patent Classification (IPC) or to both Nati	onal Classification and IPC						
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II. FIELDS SEARCHED							
Minimum Documentation Searched 7 Classification System t Classification Symbols							
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Documentation Searched other to the Extent that such Documents	hen Minimum Documentation are included in the Fields Searched ⁸						
SE,DK,FI,NO classes as above							
III. DOCUMENTS CONSIDERED TO BE RELEVANT	I Dolovento Clair No 13						
Category * Citation of Document, 11 with Indication, where app	ropriate, of the relevant passages 12 Relevant to Claim No. 13						
X FR, A, 2386678 (BUTPLATE LIMITE 3 November 1978, see page 8							
"	1-4						
X CH, A, 309864 (JULES BACON) 1 D see the whole document	ecember 1955, 1-4						
X US, A, 2188670 (R.S. WAGNER) 30 see the whole document	January 1940, 1-4						
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"P" document published prior to the international filing date but later than the priority date claimed	In the art. "6" document member of the same patent family						
IV. CERTIFICATION							
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report						
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ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO. PCT/NO 89/00124

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report.

Patent document cited in search report		Publication date	Paten men	nt family nber(s)	Publication date
FR-A-	2386678	03/11/78	NL-A- GB-A-	7803512 1590411	09/10/78 03/06/81
CH-A-	309864	01/12/55	NONE		
US-A-	2188670	30/01/40	NONE		
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ASSIGNEE-INFORMATION:

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ABSTRACT:

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